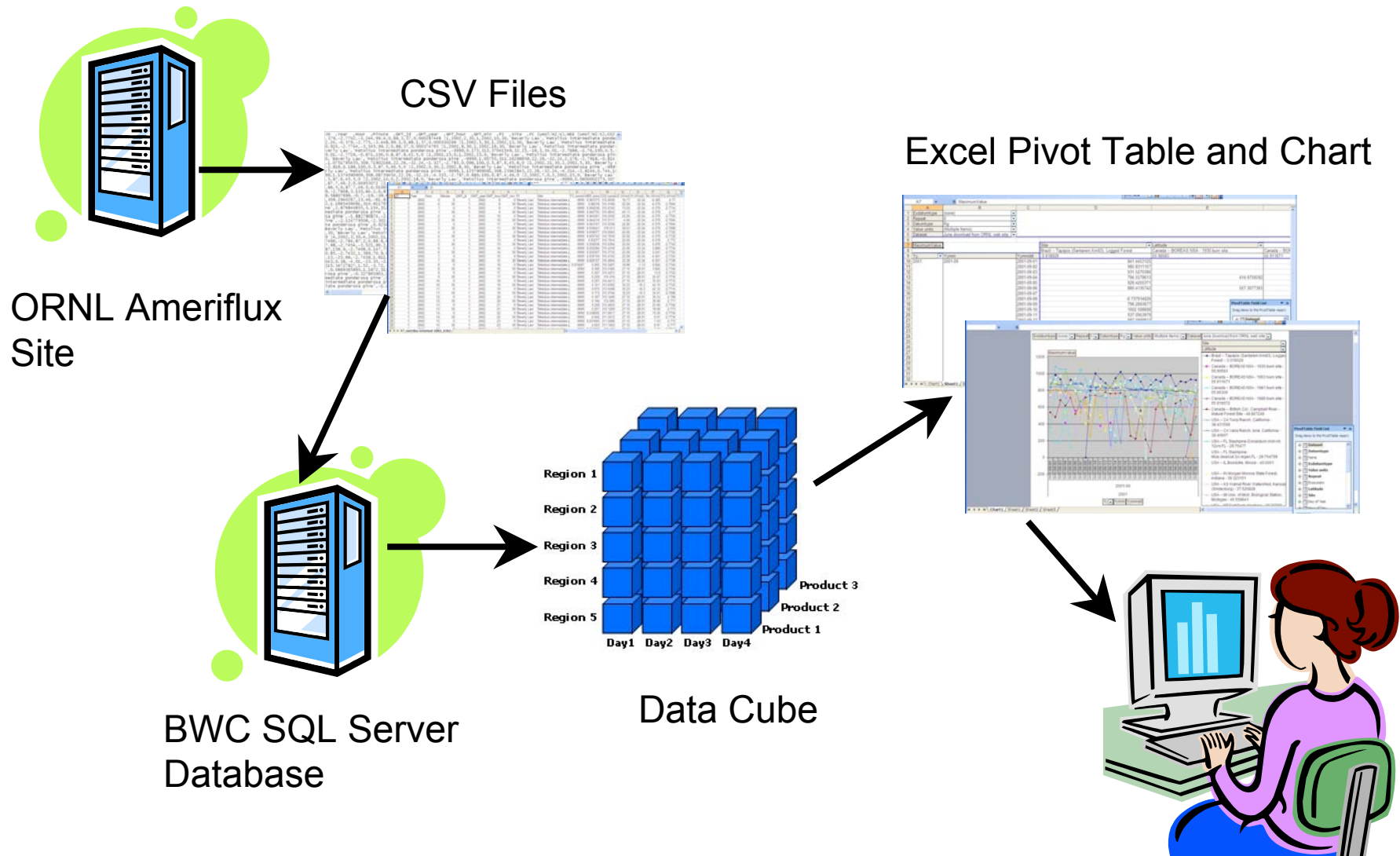


Guide to Using the Current Tools

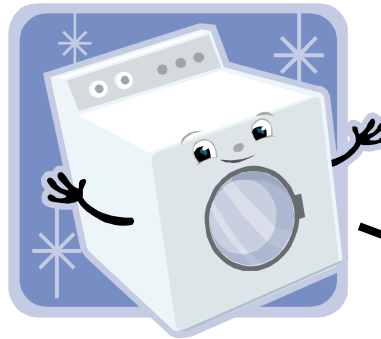
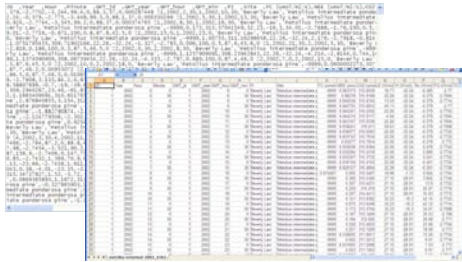
Deb Agarwal

Data Pipeline



Data Ingest and Cleaning

CSV Files



Remove invalid data
Classify data type headings
Deal with duplicate and missing data



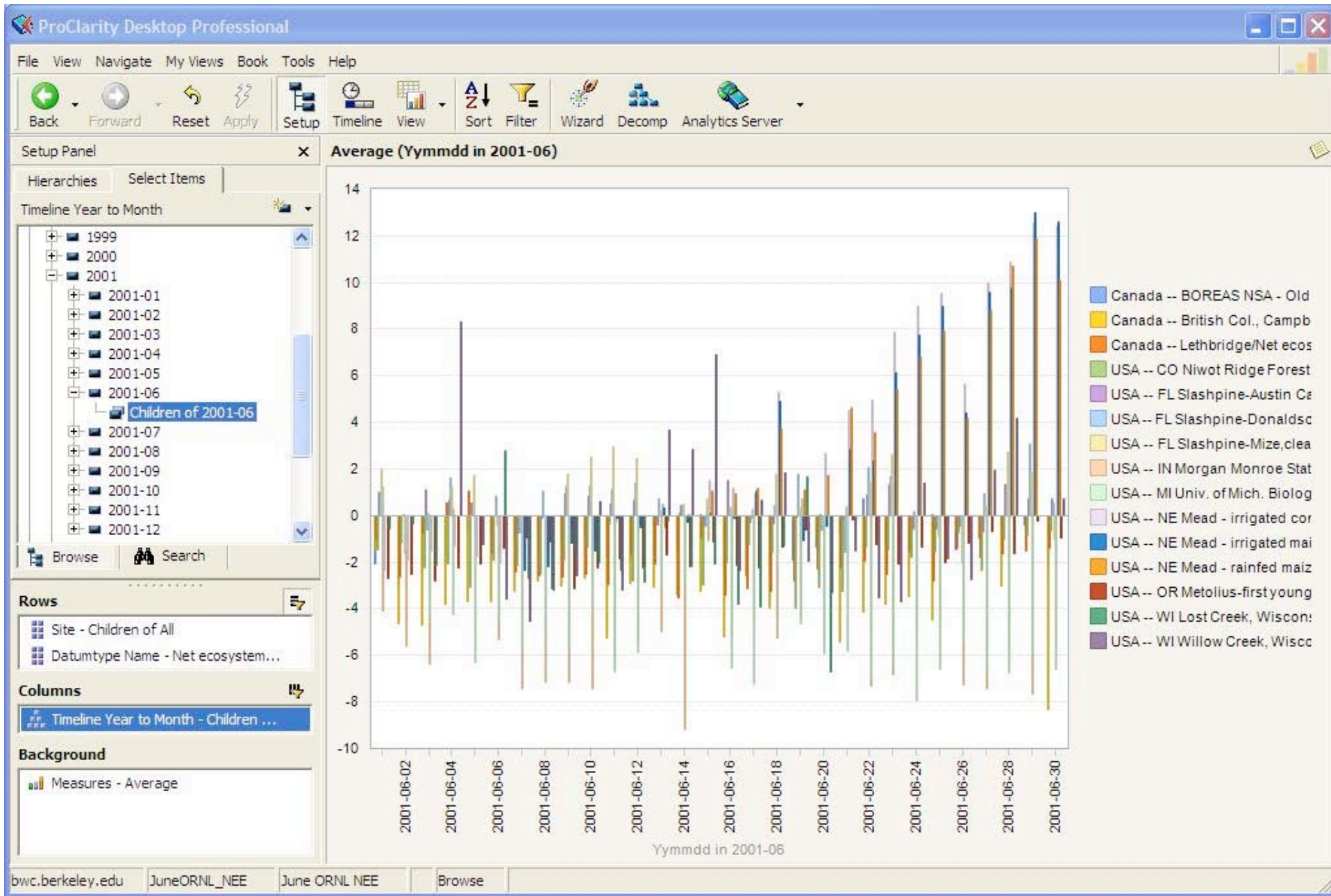
BWC SQL Server
Database

Analysis Services Data Cube

- An organized view of the data
- A multi-dimensional view into the data
- Can integrate multiple data sources
- Define measures and dimensions
 - Measure – a value you want to be able to plot
 - Dimension – An axis you want to be able to use to select data and as axis
- Calculations – define new measures

Proclarity Cube Access

- Proclarity (demonstrated last time)
 - GUI-based plot development, configuration, and exploration
 - Allows exporting of data into spreadsheet
 - Plots of measures against dimension axes
 - Run locally and connect to a remote cube
 - Ability to configure view completely before accessing the cube to get data



Excel Cube Access

- Excel 2003
 - Provides a familiar interface
 - Local pivot table provides a dynamic spreadsheet view of a remote cube
 - Pivot charts run directly connected to pivot table and plot measures against dimension axes
 - Able to run disconnected with current pivot table configuration
 - Familiar Excel capabilities and charts
 - Scatter plot requires pasting into separate columns

A7		MaximumValue				
	A	B	C	D	E	
1	Exdatumtype	(none)				
2	Repeat	0				
3	Datumtype	Rg				
4	Value units	(Multiple Items)				
5	Dataset	June download from ORNL web site				
6						
7	MaximumValue		Site	Latitude		
8			Brazil -- Tapajos (Santarem,Km83). Logged Forest	Canada -- BOREAS NSA - 1930 burn site	Canada -- BOF	
9	Yy	Yymm	Yymmdd	-3.018029	55.90583	55.911671
10	2001	2001-09	2001-09-01	841.4453125		
11			2001-09-02	985.8311157		
12			2001-09-03	931.5270386		
13			2001-09-04	794.5578613	414.6756592	
14			2001-09-05	928.4255371		
15			2001-09-06	880.4135742	557.3077393	
16			2001-09-07			
17			2001-09-08	-0.737914026		
18			2001-09-09	798.2893677		
19			2001-09-10	1002.508606		
20			2001-09-11	937.0953979		
21			2001-09-12	887.0908813		
22			2001-09-13	834.5820313		
23			2001-09-14	949.5360107		
24			2001-09-15	1021.355408		
25			2001-09-16	929.6103516		
26			2001-09-17	922.444519		
27			2001-09-18	991.7322388		
28			2001-09-19	905.5108032		
29			2001-09-20	804.617981		
30			2001-09-21	873.005188		
31			2001-09-22	930.5013428		
32			2001-09-23	906.8458862		

PivotTable Field List

Drag items to the PivotTable report

Dataset

Datumtype

Name

Exdatumtype

Value units

Repeat

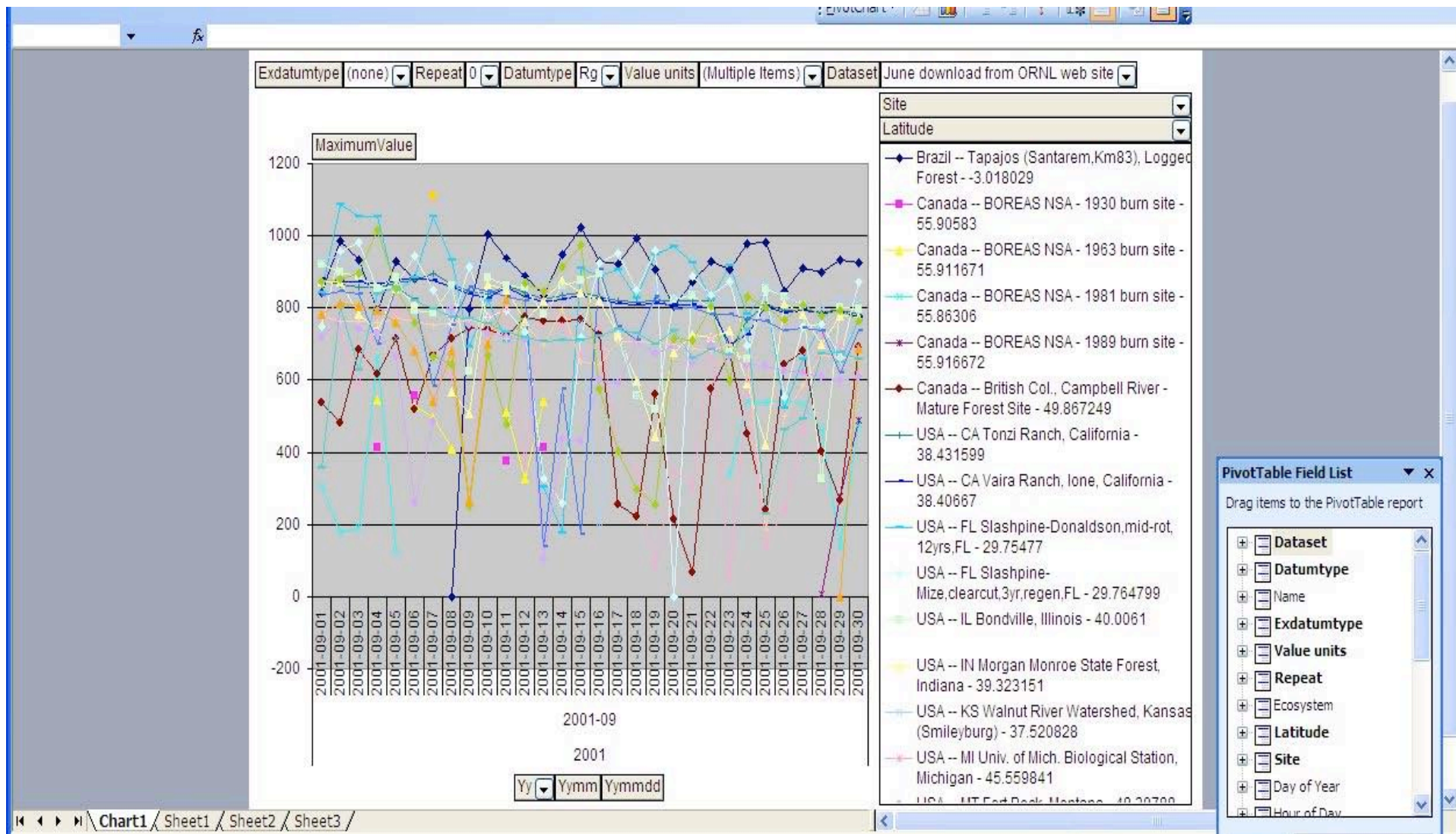
Ecosystem

Latitude

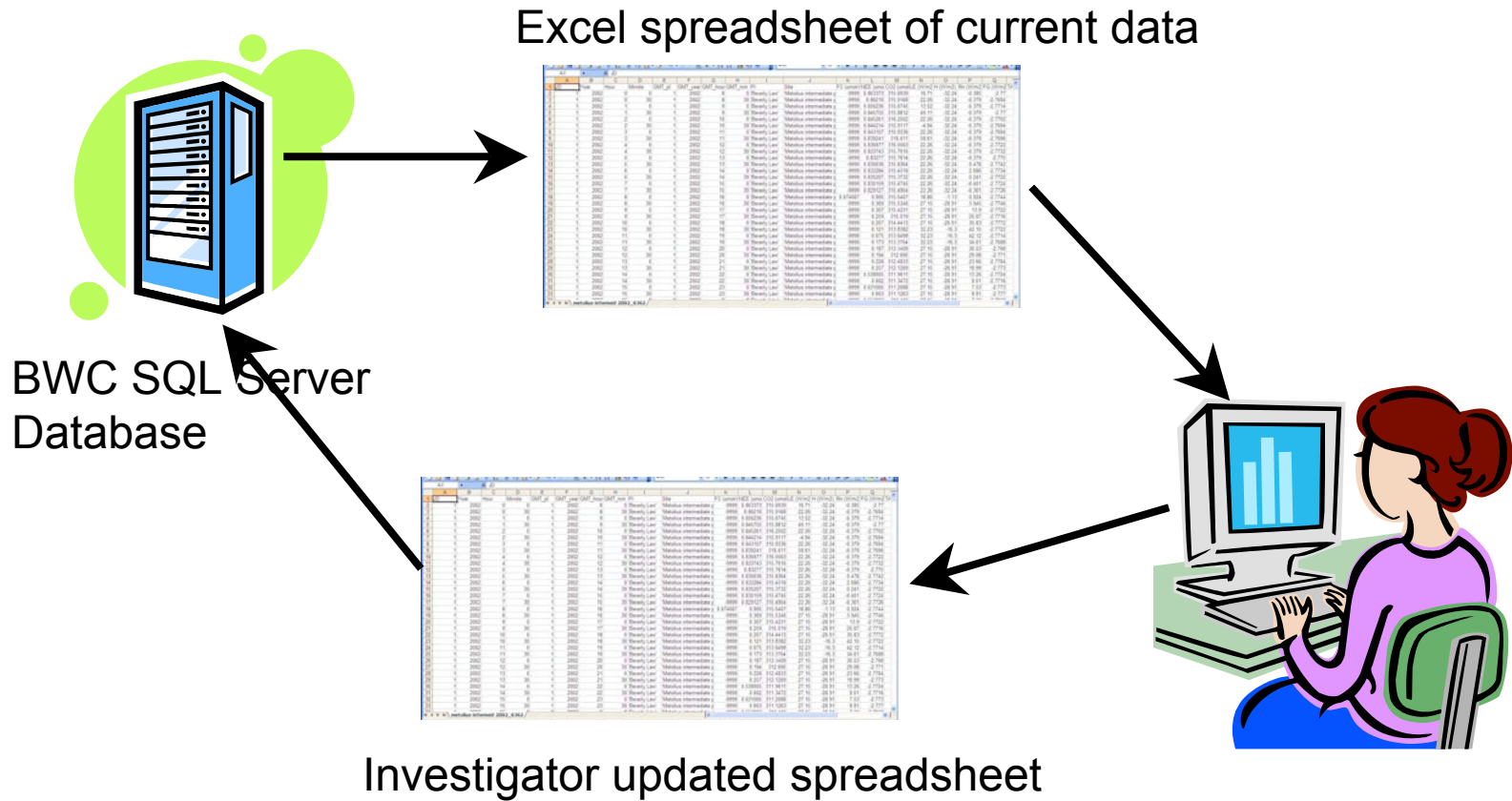
Site

Day of Year

Hour of Day



Data Cleaning and Versioning



Ameriflux Blog

- Provide feedback to the team
- Collect instructions and tips
- Post experience reports and questions
- Describe changes and post new features

Ameriflux Database Blog - Mozilla Firefox

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Ameriflux Database Blog

Supporting science one chunk of data at a time . . .

A new look to the data interface

June 9th, 2006 -- by DebA --

We have now switched to using excel as the primary data browsing and plotting program. We connect to the SQL Server Analysis Server and the data cube using an excel pivot table. This provides a very slick interface and the option to chart using all of the power of excel. [Read the rest of this entry »](#)

Posted in [News](#), [Infrastructure](#) | [Make comment »](#)

Delivery of our first cube

June 3rd, 2006 -- by DebA --

The infrastructure team met with Gretchen Miller to identify an Ameriflux Data subset and calculations that would support her current science. We have downloaded the data from the ORNL site, loaded it into the MS SQL database, performed the needed data conversions, and performed the needed calculations. The data was made available

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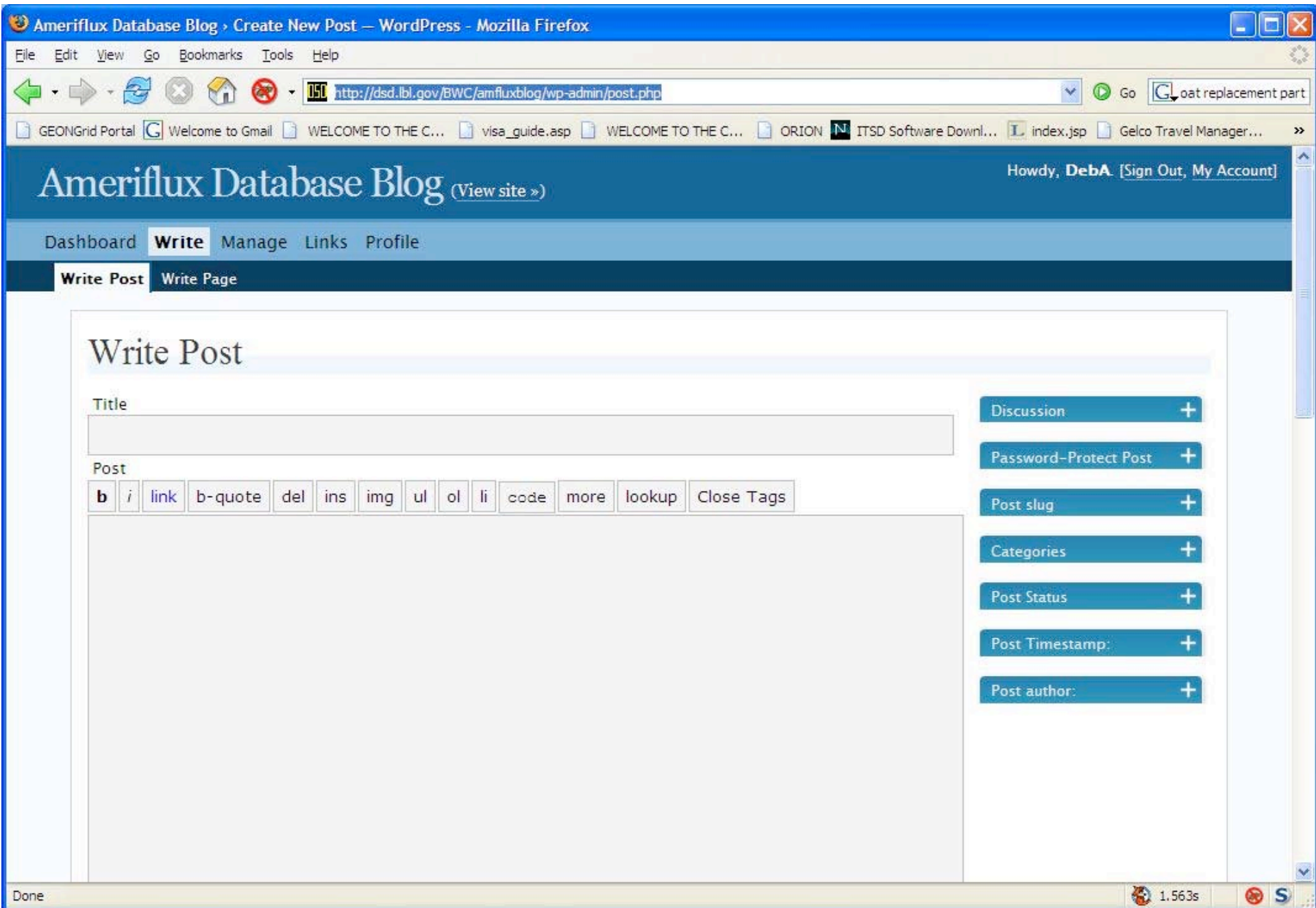
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URLs and Connection Coordinates

- Cubes
 - `bwc.berkeley.edu`
 - Cubeuser
- Blog
 - `http://dsd.lbl.gov/BWC/amfluxblog`
- E-mail
 - `bwc-tci@lists.berkeley.edu`
 - `bwc-amflux@lists.berkeley.edu`

What We Need From You

- Pointers to appropriate data source and data quality checks
- Information about what analyses you want to be able to do so we can build the appropriate cubes
- Use the tools
- Feedback!